0590

07/3/ OIPE # 2

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/839,894

DATE: 08/07/2001 TIME: 11:40:45

Input Set : D:\seqlist.txt

Output Set: N:\CRF3\08072001\1839894.raw

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             Barry, Eileen M.
             Levine, Myron M.
     6
             University of Maryland
    . 8
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    13 <130> FILE REFERENCE: UOFMD.006A
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                                         25
     40 gga aat agc gag tta att cgt gtt tat tca aaa tca aaa gag ata caa
     41 Gly Asn Ser Glu Leu Ile Arg Val Tyr Ser Lys Ser Lys Glu Ile Gln
                                     40
     44 tat ata aaa ata tat aca aaa aag att att aat ccc ggc aca act gaa
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     45 Tyr Ile Lys Ile Tyr Thr Lys Lys Ile Ile Asn Pro Gly Thr Thr Glu
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     49 Glu His Glu Val Asp Met Pro Asn Trp Asp Gly Gly Phe Val Val Thr
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     52 cct caa aaa gtt att ctt cct gca gga ggg agt aaa tca ata cgt tta
     53 Pro Gln Lys Val Ile Leu Pro Ala Gly Gly Ser Lys Ser Ile Arg Leu
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     56 act caa ttt aga ata cca aaa aaa gag gaa att tat aga gta tat ttt
     57 Thr Gln Phe Arg Ile Pro Lys Lys Glu Glu Ile Tyr Arg Val Tyr Phe
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                    100
     60 gag gcg gta aaa cca gat agc aaa gaa aat gta att gat aat aaa aaa
     61 Glu Ala Val Lys Pro Asp Ser Lys Glu Asn Val Ile Asp Asn Lys Lys
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     65 Leu Thr Thr Glu Leu Ser Val Asn Ile Ile Tyr Ala Ala Leu Ile Arg
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74					165					170					175		
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78				180					185					190			
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	225					230					235						
			Q ID														
			ENGTH		8												
			PE:														
			RGANI			oli											
			QUEN			_	_	_	_	_	_	_,	_,	_	_,		
		His	Lys	Leu	Phe	Cys	Leu	ı Lev	ı Sei		ı Let	1 116	Thr	Pro	Phe	vaı	
101		_		_	5				_	10					15		
		Asr	1 Ala		Pne	мет	. 116	е гуг		) 116	e Sei	с гля	s Asp		ı Lys	ASn	
103				20	T	T1.	7	. 17a l	25		. T		. T	30		Cln	
	_	ASI		GIU	. Leu	тте	Arc		. Tyl	. 261	г гу	s ser	. цув 45	GIL	ı Ile	GIII	
105		. т1а	35	т1 о	. Myran	mh~		40	. т1/	. T1	. 7.01	n Droc		. ሞ <b>ኮ</b> ን	Thr	Clu	
107	_	50	: гу	ire	туг	1111	55	э гуу	, 116	3 116	5 MSI	60	GIY	1 111	. 1111	GIU	
				Wa I	λan	Mot		n Aer	ייר יי	n Aer	. Gls		, Dhe	. Val	. Val	Thr	
	65	ı nış	GIU	. val	. Asp	70	. P10	) ASI	1 111	, voř	75	ע טיי	FIIC	· val	. vai	80	
		. 617	Tare	V=1	Tla		Dro	- Δ1 <i>a</i>	G13	, C1s	-	r T.vc	. Set	· T16	arg		
111		, 611	груз	Val	85	пец		JAIC		90	, 502	L Dy.	, 001		95	LCu	
		· 61r	Dhe	Δτα		Dro	T.37	2 T.V.C	. G11		1 T14	יעד ב	- Arc	r Val	L Tyr	Phe	
113		. 611		100		110	, Ly.	, 11, C	109			1 -		110		10	
		. Δ1=	val			Δan	Sei	r T.ve			ı Va	1 T1e	Asr		Lys	Lvs	
115								120									
															ı Ile	Ara	
117		130		Giu	ь	Der	135			- 110	1-	140				9	
				Ser	· Glu	Gln			Sei	r Tæi	ı Ası			- Arc	, Asn	Ala	
	145					150					15				,	160	
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121	_	,			165		-1-			170		. ,		,	175		
		: Agr	71 <sub>0</sub>	ייטיף			Lv	s Set	Sei			e Asr	Asr	Sei	Cys		
123				180		J, L	-1.		18			<u>F</u>	<u>F</u>	190			
		I.V	Thr			Lvs	Ası	n Ile			o Glu	ı Lvs	s Ser		Asp	Thr	
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Output Set: N:\CRF3\08072001\I839894.raw

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218 219 220 222 223 224 226 227 228 229 231 232 233 235 236 237 239 240 241	<211 <212 <213 <220 <221 <222 <400 atg Met 1 cca Pro tgg Trp cta Leu	> Li > TY > OF > FI > NA > LO > SI aca Thr tat Tyr gga Gly gga Gly 50	ENGTH YPE: RGANI RATURA AME/R CCATI EQUEN aaa Lys tca Ser gaa Glu 35 ata Ile	H: 26 DNA ISM: ISM: ISM: ISM: ISM: ISM: ISM: ISM:	CDS (1) 5 aat Asn 5 ttt Phe gat Asp cga Arg	aca Thr tcc Ser gaa Glu att	tta Leu gga Gly ttt Phe aaa Lys 55	tat Tyr gat Asp tat Tyr 40 aca Thr	Ile ata Ile 25 gaa Glu acc Thr	Thr 10 ccc Pro gta Val cca Pro	Ile aac Asn aaa Lys aca Thr	tct Ser cta Leu cat His 60	Ala ttc Phe tat Tyr 45 att Ile	Met cgt Arg 30 gga Gly aag Lys	Leu 15 gat Asp caa Gln ttt Phe	Thr tta Leu act Thr tat Tyr	96 144 192
218 219 220 222 223 224 226 227 228 229 231 232 235 236 237 240 241 243	<pre>&lt;211 &lt;212 &lt;213 &lt;220 &lt;221 &lt;222 &lt;400 atg Met     1 cca Pro  tgg Trp  cta Leu tca</pre>	> Li > TY > OF > FI > NA > LO > SI aca Thr tat Tyr gga Gly gga Gly 50 ccc	ENGTH YPE: RGANI RATUR AME/R CATI EQUEN aaa Lys tca Ser gaa Glu 35 ata Ile gaa	H: 26 DNA ISM: ISM: ISM: ISM: ISM: ISM: ISM: ISM:	E. CCDS (1) 5 aat Asn 5 ttt Phe gat Asp cga Arg	aca Thr tcc Ser gaa Glu att Ile	tta Leu gga Gly ttt Phe aaa Lys 55 gat	tat Tyr gat Asp tat Tyr 40 aca Thr	Ile ata Ile 25 gaa Glu acc Thr	Thr 10 ccc Pro gta Val cca Pro aat	aac Asn aaa Lys aca Thr	tct Ser cta Leu cat His 60 aaa	Ala ttc Phe tat Tyr 45 att Ile aaa	Met cgt Arg 30 gga Gly aag Lys gaa	Leu 15 gat Asp caa Gln ttt Phe	Thr tta Leu act Thr tat Tyr	96 144
218 219 220 222 223 224 226 227 228 229 231 232 233 235 240 241 243 244	<pre>&lt;211 &lt;212 &lt;213 &lt;220 &lt;221 &lt;222 &lt;400 atg Met     1 cca Pro  tgg Trp cta Leu tca Ser</pre>	> Li > TY > OF > FI > NA > LO > SI aca Thr tat Tyr gga Gly gga Gly 50 ccc	ENGTH YPE: RGANI RATUR AME/R CATI EQUEN aaa Lys tca Ser gaa Glu 35 ata Ile gaa	H: 26 DNA ISM: ISM: ISM: ISM: ISM: ISM: ISM: ISM:	E. CCDS (1) 5 aat Asn 5 ttt Phe gat Asp cga Arg	aca Thr tcc Ser gaa Glu att Ile tta Leu	tta Leu gga Gly ttt Phe aaa Lys 55 gat	tat Tyr gat Asp tat Tyr 40 aca Thr	Ile ata Ile 25 gaa Glu acc Thr	Thr 10 ccc Pro gta Val cca Pro aat	aac Asn aaa Lys aca Thr	tct Ser cta Leu cat His 60 aaa	Ala ttc Phe tat Tyr 45 att Ile aaa	Met cgt Arg 30 gga Gly aag Lys gaa	Leu 15 gat Asp caa Gln ttt Phe	Thr tta Leu act Thr tat Tyr gaa Glu	96 144 192
218 219 220 222 223 224 226 227 228 229 231 232 233 235 240 241 243 244 245	<pre>&lt;211 &lt;212 &lt;213 &lt;220 &lt;221 &lt;222 &lt;400 atg Met     1 cca Pro  tgg Trp cta Leu tca Ser 65</pre>	> Li > TY > OF > FI > LO > SI aca Thr tat Tyr gga Gly gga Gly ccc Pro	ENGTH YPE: RGANI RGATURA ME/ROCATI COLORINA EQUEN aaa Lys tca Ser gaa Glu 35 ata Ile gaa Glu	H: 20 DNA ISM: ISM: ISM: ISM: ISM: ISM: ISM: ISM:	CDS (1) 5 aat Asn 5 ttt Phe gat Asp cga Arg att Ile	aca Thr tcc Ser gaa Glu att Ile tta Leu 70	tta Leu gga Gly ttt Phe aaa Lys 55 gat Asp	tat Tyr gat Asp tat Tyr 40 aca Thr	Ile ata Ile 25 gaa Glu acc Thr ata Ile	Thr 10 ccc Pro gta Val cca Pro aat Asn	aac Asn aaa Lys aca Thr gta Val 75	tct Ser cta Leu cat His 60 aaa Lys	Ala ttc Phe tat Tyr 45 att Ile aaa Lys	Met cgt Arg 30 gga Gly aag Lys gaa Glu	Leu 15 gat Asp caa Gln ttt Phe aag Lys	Thr tta Leu act Thr tat Tyr gaa Glu 80	96 144 192 240
218 219 220 222 223 224 226 227 228 229 231 232 233 235 240 241 243 244 245 247	<pre>&lt;211 &lt;212 &lt;213 &lt;220 &lt;221 &lt;222 &lt;400 atg Met     1 cca Pro  tgg Trp cta Leu tca Ser 65 aag</pre>	> LI > TY > OF > FI > LO > SI aca Thr tat Tyr gga Gly gga Gly CCC Pro	ENGTHER CONTROL OF THE CONTROL OF TH	H: 20 DNA ISM: ISM: ISM: ISE: ION: ICE: ION: ICE: ICE: ICE: ICE: ICE: ICE: ICE: ICE	E. CDS (1) 5 aat Asn 5 ttt Phe gat Asp cga Arg att Ile gtt	aca Thr tcc Ser gaa Glu att Ile tta Leu 70 ttg	tta Leu gga Gly ttt Phe aaa Lys 55 gat Asp	tat Tyr gat Asp tat Tyr 40 aca Thr aaa Lys	Ile ata Ile 25 gaa Glu acc Thr ata Ile aat	Thr 10 ccc Pro gta Val cca Pro aat Asn	aac Asn aaa Lys aca Thr gta Val 75	tct ser cta Leu cat His 60 aaa Lys	Ala ttc Phe tat Tyr 45 att Ile aaa Lys	Met cgt Arg 30 gga Gly aag Lys gaa Glu aat	Leu 15 gat Asp caa Gln ttt Phe aag Lys	Thr tta Leu act Thr tat Tyr gaa Glu 80 aat	96 144 192
218 219 220 222 223 224 226 227 228 229 231 232 233 235 240 241 243 244 245 247	<pre>&lt;211 &lt;212 &lt;213 &lt;220 &lt;221 &lt;222 &lt;400 atg Met     1 cca Pro  tgg Trp cta Leu tca Ser 65</pre>	> LI > TY > OF > FI > LO > SI aca Thr tat Tyr gga Gly gga Gly CCC Pro	ENGTHER CONTROL OF THE CONTROL OF TH	H: 20 DNA ISM: ISM: ISM: ISE: ION: ICE: ION: ICE: ICE: ICE: ICE: ICE: ICE: ICE: ICE	E. CDS (1) 5 aat Asn 5 ttt Phe gat Asp cga Arg att Ile gtt	aca Thr tcc Ser gaa Glu att Ile tta Leu 70 ttg	tta Leu gga Gly ttt Phe aaa Lys 55 gat Asp	tat Tyr gat Asp tat Tyr 40 aca Thr aaa Lys	Ile ata Ile 25 gaa Glu acc Thr ata Ile aat	Thr 10 ccc Pro gta Val cca Pro aat Asn	aac Asn aaa Lys aca Thr gta Val 75	tct ser cta Leu cat His 60 aaa Lys	Ala ttc Phe tat Tyr 45 att Ile aaa Lys	Met cgt Arg 30 gga Gly aag Lys gaa Glu aat	Leu 15 gat Asp caa Gln ttt Phe aag Lys	Thr tta Leu act Thr tat Tyr gaa Glu 80 aat	96 144 192 240

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/839,894

DATE: 08/07/2001 TIME: 11:40:45

Input Set : D:\seqlist.txt

Output Set: N:\CRF3\08072001\1839894.raw

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	Lys	Thr	Lys	Ser	Val	Asp	Val	Ile	Val	Asp	Asp	Val	Asp	Asn	Val	Val	
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261		130					135					140					
	_						-	aat	-			-				-	480
		Tyr	His	Gln	Leu		Arg	Asn	Val	Lys	Lys	Ala	Phe	Ile	Gln		
265						150					155					160	
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269					165					170					175		
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	Ser	Gly	Asn		Ala	Leu	Gly	Ile		Asp	Thr	Ser	Tyr		Val	Leu	
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	Arg		Пе	Asn	Ser	Leu	_	Phe	Arg	HIS	Asp		Asp	ьys	Arg	Tyr	
281		210					215					220					720
								gat									720
	_	Tyr	GIN	Pne	GIY	_	мет	Asp	Arg	Thr	_	ьeu	ser	GIN	ser		
285						230			-++	+	235		~n+	-++	~~+	240	760
	_							tta					-		-		768
289	ser	СТА	ASII	Pile	245	Pne	ASII	Leu	rea	250	Leu	PIO	ASP	TTE	255	GTÀ	
	2+2	200	202	~~~		202	<b>C22</b>	tct	+=+		222	22t	202	ant.		+++	816
								Ser									010
293	116	пта	1111	260	1111	1111	GIII	Ser	265	110	цуз	ASII	1111	270	шуз	riic	
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297	110		275		, 41		,	280					285	9		010	
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								Leu									2
301		290	5			· · · ·	295		U-1			300				U-1	
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								Thr									
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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/839,894

DATE: 08/07/2001

TIME: 11:40:46

Input Set : D:\seqlist.txt

Output Set: N:\CRF3\08072001\1839894.raw

L:15 M:270 C: Current Application Number differs, Replaced Current Application No

L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:990 M:351 W: Sequence data Name/Key Feature Out-of-Range, SEQ ID#: 27, CDS LOCATION:283..999

L:1054 M:351 W: Sequence data Name/Key Feature Out-of-Range, SEQ ID#: 27, CDS

LOCATION: 1028..1531

L:1098 M:351 W: Sequence data Name/Key Feature Out-of-Range, SEQ ID#: 27, CDS

LOCATION: 1589..4192

L:1418 M:351 W: Sequence data Name/Key Feature Out-of-Range, SEQ ID#: 27, CDS

LOCATION: 5790..6119